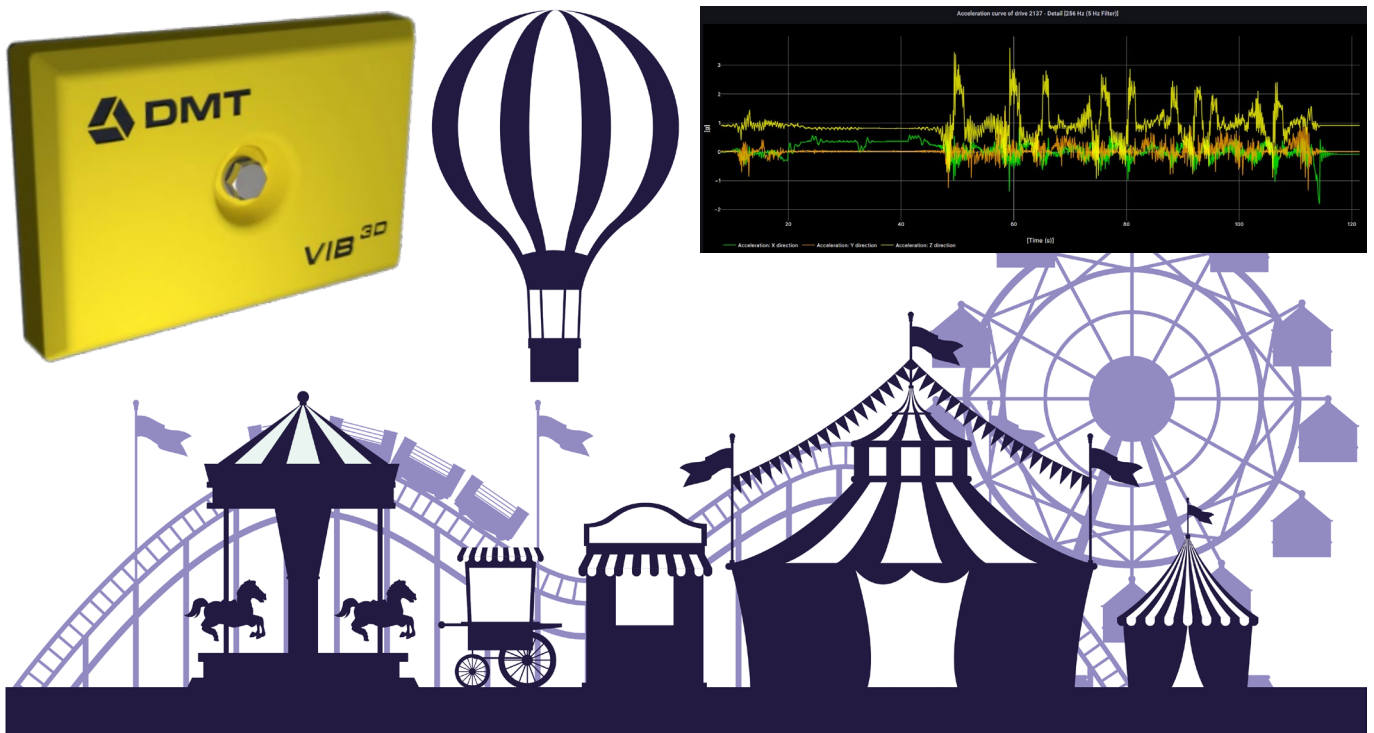


DMT VIB^{3D} – Real-time IoT vibration monitoring solution

Safety evaluation & predictive maintenance on amusement rides



- Vibration and movement measurement with calibrated MEMS sensors
- Monitoring of different types of amusement rides in large scale networks
- Worldwide access to the web-frontend integrated in DMT's IoT-platform SAFEGUARD
- Artificial Intelligence based anomaly recognition
- Automated alarm functionality and data visualization
- Data transmission by LTE or WiFi
- Network or GPS time base
- Easy to install mobile device

Safety Evaluation

- Conformity with local regulations
- Impacts on humans
- Early damage recognition

Predictive maintenance

- Vibration Analysis and condition monitoring in any case of industry, machinery and working environment
- Wear reduction
- Early maintenance planning

Technical specifications	
Size	120 x 80 x 20 mm (L x W x H)
Weight	135 g (without mounting parts)
Mounting	Single mounting point in any orientation via centric mounting hole or optional tripod stand
Digitalization	
Sensor Type	Triaxial MEMS accelerometer
Sampling Rate	125 Hz - 4 kHz
Recording Length	1 - 60 seconds per data file
Recording Type	Event based or continuous
Frequency Range	DC (0 Hz) to Nyquist
Signal Output	
Measurement Unit	Selectable: <ul style="list-style-type: none"> - Acceleration [g] - Acceleration [mm/s²] - Velocity [mm/s]
Signal Transformation	Selectable: <ul style="list-style-type: none"> - Automatic Sensor orientation and levelling - Fixed or pre-defined sensor orientation - Dynamic DC offset removal
Data Storage	
	Internal SD memory for data storage in offline mode and Data buffering in online operation
Data Transmission	
WiFi	IEEE 802.11b/g/n 1x1 SISO (2400 MHz -2484 MHz)
Mobile Radio	GSM/GPRS/EDGE (900 / 1800 MHz) UMTS/HSPA+ (900 / 2100 MHz) LTE (700 / 800 / 900 / 1800 / 2100 MHz)
Time Synchronization	
	Internal RTC / NTP / GPS
Power Supply	
	5V (max. 2A) Micro-USB connector
Environmental Conditions	
Temperature	-25 °C - +60°C
Humidity	0 - 95 %
Casing	IP 65

Subject to technical changes

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Disposal information: :
Our products are subject to the WEEE directive.
DMT has committed itself to take back all electrical and electronic components sold and to dispose of them professionally.
Please contact: products@dm-tgroup.com

WEEE Registration Number: **DE 25917380**



DIN EN ISO 9001
DIN EN ISO 14001
DIN ISO 45001

